

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Medsker, et al.

Examiner:

Serial No.:

Group Art Unit:

Filed:

Date: December 1, 2000

For: "MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS,  
AND COPOLYMERS AND COATINGS CONTAINING THE SAME"

Assistant Commissioner of Patents  
Washington, D.C. 20231

1c135 U.S. PTO  
09/727637  
12/01/00

INFORMATION DISCLOSURE STATEMENT

Sir:

This invention relates to Monofunctional polyfluorooxetane oligomers, polymers, and copolymers are prepared by the cationic polymerization of fluorooxetane monomers with a monoalcohol. In addition to serving as an initiator, the monoalcohol can also serve as a solvent for the fluorooxetane or other monomers to produce oligomers, polymers, or copolymers having low cyclic content. Suitable comonomers generally include various cyclic ethers. The polyfluorooxetane oligomer, polymer, or copolymer having a single hydroxyl end group can be functionalized with a variety of compounds so as to yield a functional end group such as an acrylate, a methacrylate, an allylic, an amine, etc., with the functionalized oligomer or polymer being suitable for use in radiation curable or thermal curable coating compositions. These functionalized polymers can be copolymerized and cured to provide improvements in wetting and surface properties.

As authorized and encouraged under 37 C.F.R. §1.97-1.99, applicant hereby cites as a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, the following patents and/or documents, copies enclosed, which the Examiner should consider with respect to the above-identified United States Patent Application:

U.S. PATENT DOCUMENTS		
U.S. PATENT/DOCUMENT NO.	DATE	INVENTOR/OWNER
V. 2. 3,100,722	August 13, 1963	Hermann et al.
3,834,823	September 10, 1974	Seregely et al.
3,922,457	November 5, 1975	Barnwell et al.
3,949,132	April 6, 1976	Seregely et al.
4,118,541	October 3, 1978	Power et al.
4,603,074	July 29, 1986	Pate et al.
4,686,275	August 11, 1987	Bryant et al.
4,746,576	May 24, 1988	Ozu et al.
4,857,396	August 15, 1989	Otonari et al.
4,898,981	February 6, 1990	Falk et al.
4,946,992	August 7, 1990	Falk et al.
4,988,123	January 29, 1991	Lin et al.
5,045,624	September 3, 1991	Falk et al.
5,097,048	March 17, 1992	Falk et al.
5,230,954	July 27, 1993	Sakamoto et al.
5,324,764	June 28, 1994	Fujita et al.
5,361,164	November 1, 1994	Steliga
5,543,200	August 6, 1996	Hargis et al.
5,637,657	June 10, 1997	Anton
5,637,772	June 10, 1997	Malik et al.
5,649,828	July 22, 1997	Kawashima
5,650,483	July 22, 1997	Malik et al.
5,654,450	August 5, 1997	Malik et al.
5,663,289	September 2, 1997	Archibald et al.
5,668,250	September 16, 1997	Malik et al.
5,668,251	September 16, 1997	Malik et al.
5,674,951	October 7, 1997	Hargis et al.
5,681,890	October 28, 1997	Tanaka et al.
V. 5,703,194	December 30, 1997	Malik et al.
V. 2. 5,807,977	September 15, 1998	Malik et al.
Provisional Appl. 60/144,375	July 16, 1999	
U.S. Appln. based on provisional No. 60/144,375	July 13, 2000	

FOREIGN PATENT DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	COUNTRY
T. 2. 348 350	December 27, 1989	EP
WO 96/18699	June 20, 1996	WIPO
WO 99/26992	June 3, 1999	WIPO
WO 99/45079	September 10, 1999	WIPO
V. 2. WO 00/46270	August 10, 2000	WIPO

ARTICLES/DOCUMENTS
<del>10 pages of World Patent Index search results based on PVC and fluoro ... coating.</del>
<del>4 pages of World Patent Index search results based on PVC and polyester coating.</del>
<del>40 pages of Chemical Abstract search results based on PVC and fluoro ... coating.</del>
<del>25 pages of Chemical Abstract search results based on PVC and polyester.</del>

ARTICLES/DOCUMENTS Continued

72 CA entries and Derwent patent family printouts on JP 03275859; JP 04363370; JP 07004064; JP 07039812; JP 08283654; JP 6216941; and JP 63248827.

~~Letter to Southwest Texas Distributions, Inc. dated 3/5/98 to Greg Nernes from Barry Bastion, Product Manager, GenCorp.~~

~~Invoice to Southwest Texas Distributions, Inc. dated 4/9/98 from GenCorp.~~

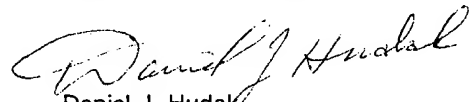
A copy of each document is included for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of its materiality, if any, with regard to the examination of the application.

In reviewing the enclosed copies of the above publications, the Examiner is requested to ignore any underscoring or highlighting which may appear because such markings may or may not have any relationship to the subject matter of the above-identified application. The copies being submitted with this Information Disclosure Statement are the best copies available at this time.

An examination of the present application considering the above document is requested.

Respectfully submitted,

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(GC-FK-CIP)